

In the claims:

1. (Currently amended) A composition comprising:

- (a) at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about ~~0.1~~ ~~0.4~~ 0.4 μM to about ~~1000~~ ~~400~~ 400 μM ; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting;

- (b) at least a first plant hormone selected from the group consisting of an auxin, a

gibberellin and a cytokinin; and

- (c) a horticulturally-acceptable vehicle.

2. (Original) The composition of claim 1, wherein said compound has the formula:



wherein R is optionally branched or straight chain, saturated C₈-C₂₀ alkyl.

3. (Currently Amended) The composition of claim 2, wherein said compound is selected from the group consisting of NAE10:0 (*N*-caproylethanolamine), NAE11:0, NAE12:0 (*N*-lauroylethanolamine), NAE13:0, NAE14:0 (*N*-myristoylethanolamine), NAE15:0, NAE16:0 (*N*-palmitoylethanolamine), NAE17:0, NAE18:0 (*N*-stearoylethanolamine), NAE19:0, and NAE20:0 (*N*-arachidoylethanolamine), and a mixture thereof.

4. (Currently Amended) The composition of claim 3, wherein said compound is selected from the group consisting of NAE10:0 (*N*-caproylethanolamine), NAE12:0 (*N*-lauroylethanolamine), NAE14:0 (*N*-myristoylethanolamine), NAE16:0 (*N*-palmitoylethanolamine), NAE18:0 (*N*-stearoylethanolamine), and NAE20:0 (*N*-arachidoylethanolamine), and a mixture thereof.

5. (Currently Amended) The composition of claim 4, wherein said compound is *N*-lauroylethanolamine (NAE12:0), or *N*-myristoylethanolamine (NAE14:0), or a mixture thereof.

6. (Original) The composition of claim 1, wherein said compound has the formula:



wherein R is optionally branched or straight chain, unsaturated C₈-C₂₀ alkyl.

7. (Currently Amended) The composition of claim 6, wherein said compound is selected from the group consisting of NAE10:1, NAE10:2, NAE10:3, NAE11:1, NAE11:2, NAE11:3, NAE12:1, NAE12:2, NAE12:3, NAE13:1, NAE13:2, NAE13:3, NAE14:1, NAE14:2, NAE14:3, NAE15:1, NAE15:2, NAE15:3, NAE16:1 (*N*-palmitoleylethanolamine), NAE16:2, NAE16:3, NAE17:1, NAE17:2, NAE17:3, NAE18:1 (*N*-vaccenoylethanolamine), NAE18:2 (*N*-linoleoylethanolamine), NAE18:3 (*N*-linolenoylethanolamine), NAE19:1, NAE19:2, NAE19:3, NAE20:1, NAE20:2 (8,11-icosadienoylethanolamine), and NAE20:3 (5,8,11-icosatrienoylethanolamine), and a mixture thereof.

8. (Currently Amended) The composition of claim 7, wherein said compound is NAE10:1, NAE10:2, NAE11:1, NAE11:2, NAE11:3, NAE12:1, NAE12:2, NAE12:3, NAE13:1, NAE13:2, NAE13:3, NAE14:1, NAE14:2, NAE14:3, NAE15:1, NAE15:2, NAE15:3, NAE16:1 (*N*-palmitoleylethanolamine), NAE16:2, or NAE16:3, or a mixture thereof.

9. (Original) The composition of claim 1, wherein said vehicle comprises at least a first nutrient source for said plant, flower, fruit, or plant cutting.

10. (Original) The composition of claim 9, wherein said nutrient comprises a lipid, a carbohydrate, or an amino acid.

11. (Currently Amended) The composition of claim 10, wherein said carbohydrate is selected from the group consisting of lactose, dextrose, fructose, sucrose, glucose, sorbitol, mannitol, and inositol, and a mixture thereof.

12. (Original) The composition of claim 1, wherein said vehicle comprises at least a first surfactant.

13. (Currently Amended) The composition of claim 12, wherein said surfactant is selected from the group consisting of polyoxyethylene sorbitan monolaurate, monopalmitate monostearate, ethoxylated alkyl phenols, and a hydrogenated oil, and a mixture thereof.

14. (Original) The composition of claim 1, wherein said vehicle comprises at least a first buffer.

15. (Currently Amended) The composition of claim 14, wherein said buffer is selected from the group consisting of acetate, bicarbonate, citrate, succinate, malate, Tris-(hydroxymethyl)-aminomethane (TRIS); 2-(N-Morpholino)-ethanesulfonic acid (MES); N-[2-hydroxyethyl]piperazine-N'-[2-ethanesulfonic acid] (HEPES); 3-(N-Morpholino)-propanesulfonic acid (MOPS); N,N-Bis-(2-hydroxyethyl)-2-aminoethanesulfonic acid (BES); and Bis-(2-hydroxyethyl)-imino-tris-(hydroxymethyl)-methane (BIS-TRIS), and a mixture thereof.

16. (Original) The composition of claim 1, wherein said vehicle comprises at least a first osmoregulant.

17. (Original) The composition of claim 16, wherein said osmoregulant is selected from the group consisting of a salt, a carbohydrate, a polyol, and a polyethylene glycol, and a mixture thereof.

18. Cancelled.

19. Cancelled.

20. (Original) The composition of claim 1, further comprising at least a first antifungal, bacteriostatic, or bactericidal agent.

21. (Currently Amended) The composition of claim 20, wherein said bactericidal agent is selected from the group consisting of 8-hydroxyquinoline citrate, sodium dichloroisocyanurate, and 1,3-dichloro-5,5-dimethylhydantoin, and a mixture thereof.

22. (Original) The composition of claim 1, further comprising an alcohol.

23. (Currently Amended) The composition of claim 1, wherein said compound is *N*-lauroylethanolamine (NAE12:0), or *N*-myristoylethanolamine (NAE14:0), or a mixture thereof, and wherein said composition further comprises a lecithin.

24. (Original) The composition of claim 1, further comprising at least a second anti-senescent component.

25. (Currently Amended) The composition of claim 24, wherein said second anti-senescent component comprises a second distinct *N*-acylethanolamine selected from the group consisting of NAE10:0 (*N*-caproylethanolamine), NAE12:0 (*N*-lauroylethanolamine), NAE14:0 (*N*-myristoylethanolamine), NAE16:0 (*N*-palmitoylethanolamine), NAE18:0 (*N*-stearoylethanolamine), NAE20:0 (*N*-arachidoylethanolamine), NAE16:1 (*N*-palmitoleoylethanolamine), NAE18:1 (*N*-vaccenoylethanolamine), NAE18:2 (*N*-linoleoylethanolamine), NAE18:3 (*N*-linolenoylethanolamine), NAE20:1, NAE20:2 (8,11-icosadienoylethanolamine), and NAE20:3 (5,8,11-icosatrienoylethanolamine), and a mixture thereof.

26. (Currently Amended) A kit comprising the composition of claim 1, a composition comprising:

(a) at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.1-0.4 μM to about 400-4000 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

(b) at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and

(c) a horticulturally-acceptable vehicle; and

instructions for using said kit to delay the senescence of said plant, flower, fruit, or plant cutting.

27. (Currently Amended) A method of delaying the senescence of a plant, flower, fruit, or plant cutting, said method comprising providing to said flower, fruit, or plant cutting a solution comprising a senescence-delaying amount of:

- (a) a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl; or

- (b) ~~the composition of claim 1, claim 64 or claim 71 a composition comprising: at least a first compound of the formula:~~



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and

a horticulturally-acceptable vehicle; or

- (c) a composition comprising: (a) at least a first compound selected from the group consisting of NAE10:0 (N-caproylethanamine), NAE12:0 (N-lauroylethanamine), NAE14:0 (N-myristoylethanamine), NAE18:0 (N-stearoylethanamine), and NAE20:0 (N-arachidoylethanoamine) in an amount of from about 0.1 μM to about 1000 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting;

(b) a lecithin; and (c) a horticulturally-acceptable vehicle that comprises at least one surfactant; or

- (d) a composition comprising:

at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C8-C20 alkyl, in an amount of from about 0.4 μM to about 400 μM , said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,
at least a first soy lecithin, and
a horticulturally-acceptable vehicle comprising at least a first alcohol.

28. (Original) The method of claim 27, wherein said providing comprises applying said solution to said plant, flower, fruit, or plant cutting.

29. (Original) The method of claim 28, wherein said applying comprises spraying, coating, soaking, storing or transporting said plant, flower, fruit, or plant cutting with said solution for a length of time effective to delay said senescence.

30. (Original) The method of claim 27, wherein said solution is applied to said plant, flower, fruit, or plant cutting under ambient temperature conditions.

31. (Original) The method of claim 27, wherein said solution is applied to said plant, flower, fruit, or plant cutting under temperature conditions of from about 4°C to about 15°C.

32. (Original) The method of claim 27, wherein said providing comprises administering said solution to the plant while under cultivation.

33. (Original) The method of claim 32, wherein said providing comprises directly administering said solution to the roots, leaves, or flowers of said plant.

34. (Original) The method of claim 27, wherein delaying said senescence preserves or improves the appearance, fragrance, freshness, or aesthetic characteristics of said plant, flower, fruit, or plant cutting.

35. (Original) The method of claim 27, wherein delaying said senescence reduces the droop, wilt, bloom loss, leaf loss, needle drop, or rate of dehydration of said plant, flower or plant cutting.

36. (Original) The method of claim 27, wherein delaying said senescence prolongs or extends the appearance, taste, quality, or shelf life of said fruit.

37. (Original) The method of claim 27, wherein said plant cutting is severed from said plant during or after cultivation of said plant.

38. (Original) The method of claim 27, wherein said plant cutting comprises a bulb, a bloom, a bud, a flower, a petal, a stem, a branch, a rhizome, a bract, a fruit, a needle, or a leaf.

39. (Original) The method of claim 27, wherein said plant is selected from the group consisting of roses, orchids, tulips, daffodils, hyacinths, carnations, chrysanthemums, baby's breath, daisies, gladiolus, agapanthus, anthuria, Protea, Heliconia, Strilitzia, lilies, asters, irises, delphiniums, liatris, lisianthus, statis, stephanotis, freesia, dendrobiums, sunflowers, snap dragons, and ornamental foliage.

40. (Original) The method of claim 39, wherein said ornamental foliage comprises cut leaves, stalks, stems, branches, limbs, or cut trees.

41. (Original) The method of claim 40, wherein said ornamental foliage comprises coniferous foliage.

42. (Original) The method of claim 41, wherein said ornamental foliage comprises juniper, fir, pine, cedar, or spruce foliage.

43. (Original) The method of claim 40, wherein said ornamental foliage comprises Christmas or holiday trees, wreaths, or garlands.

44. Cancelled.

45. Cancelled.

46. (Original) The method of claim 45, wherein the final concentration of said compound in said solution is between about 2 μM and about 200 μM .

47. (Original) The method of claim 46, wherein the final concentration of said compound in said solution is between about 4 μM and about 100 μM .

48. (Original) The method of claim 27, wherein said solution is provided to said plant, flower, fruit, or plant cutting, for a time of from about 10 minutes to about 28 days.

49. (Original) The method of claim 48, wherein said solution is provided to said plant, flower, fruit, or plant cutting, for a time of from about 30 minutes to about 21 days.

50. (Original) The method of claim 49, wherein said solution is provided to said plant, flower, fruit, or plant cutting, for a time of from about 1 hour to about 14 days.

51. Cancelled.

52. Cancelled.

53. Cancelled.

54. Cancelled.

55. Cancelled.

56. Cancelled.

57. Cancelled.

58. Cancelled.

59. (Previously Added) The composition of claim 5, wherein said compound is *N*-lauroylethanolamine (NAE12:0).

60. (Currently Amended) The composition of claim 1, further comprising a lecithin.

61. (Currently Amended) The composition of claim 60, wherein said lecithin is a soy lecithin.

62. (Previously Added) The method of claim 27, comprising providing to said flower, fruit, or plant cutting a solution comprising a senescence-delaying amount of a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl.

63. (Currently Amended) The method of claim 27, comprising providing to said flower, fruit, or plant cutting a solution comprising a senescence-delaying amount of the composition of claim 1 a composition comprising:

at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and
a horticulturally-acceptable vehicle.

64. (Currently Amended) A composition comprising: (a) at least a first compound selected from the group consisting of NAE10:0 (*N*-caproylethanolamine), NAE12:0 (*N*-lauroylethanolamine), NAE14:0 (*N*-myristoylethanolamine), NAE18:0 (*N*-stearoylethanolamine), and NAE20:0 (*N*-arachidoylethanolamine), and a mixture thereof, in an amount of from about 0.1 μM to about 1000 μM; said amount effective to prolong the freshness

or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting; (b) a lecithin; and (c) a horticulturally-acceptable vehicle that comprises at least one surfactant.

65. (Currently Amended) The composition of claim 64, wherein said compound is selected from the group consisting of NAE10:0 (*N*-caproylethanolamine), NAE11:0, NAE12:0 (*N*-lauroylethanolamine), NAE13:0, NAE14:0 (*N*-myristoylethanolamine), NAE15:0, NAE17:0, NAE18:0 (*N*-stearoylethanolamine), NAE19:0, and NAE20:0 (*N*-arachidoylethanolamine), and a mixture thereof.

66. (Currently Amended) The composition of claim 65, wherein said compound is selected from the group consisting of NAE10:0 (*N*-caproylethanolamine), NAE12:0 (*N*-lauroylethanolamine), NAE14:0 (*N*-myristoylethanolamine) and NAE18:0 (*N*-stearoylethanolamine), and a mixture thereof.

67. (Previously Added) The composition of claim 64, wherein said compound is *N*-lauroylethanolamine (NAE12:0), said lecithin is soy lecithin, and said surfactant is polyoxyethylenesorbitan monolaurate.

68. (Previously Added) The composition of claim 64, further comprising an alcohol.

69. (Previously Added) The composition of claim 68, wherein said alcohol is isopropanol.

70. (Currently Amended) A composition comprising:

(a) at least a first compound selected from the group consisting of NAE10:0, NAE11:0, NAE12:0, NAE13:0, NAE14:0, NAE15:0, NAE17:0, NAE18:0, NAE19:0, NAE20:0, NAE10:1, NAE10:2, NAE10:3, NAE11:1, NAE11:2, NAE11:3, NAE12:1, NAE12:2, NAE12:3, NAE13:1, NAE13:2, NAE13:3, NAE14:1, NAE14:2, NAE14:3, NAE15:1, NAE15:2, NAE15:3, NAE16:1, NAE16:2, NAE16:3, NAE17:1, NAE17:2, NAE17:3, NAE18:1, NAE18:2, NAE18:3, NAE19:1, NAE19:2, NAE19:3, NAE20:1, NAE20:2, and NAE20:3, and a mixture thereof, in an amount of from about 0.1 μ M to about

1000 μM ; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting;

- (b) at least a first lecithin; and
- (c) a horticulturally-acceptable vehicle that comprises at least a first nutrient source for said plant, flower, fruit, or plant cutting.

71. (Previously Added) A composition comprising:

- (a) at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.1 μM to about 1000 μM ; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting;

- (b) at least a first soy lecithin; and
- (c) a horticulturally-acceptable vehicle comprising at least a first alcohol.

72. (Previously Added) A composition comprising: about 2 g N-lauroylethanolamine, about 1 g soy lecithin, and about 0.2 ml polyoxyethylenesorbitan monolaurate per 20 ml of isopropanol.

73. (Currently Amended) A method of prolonging the appearance of a plant, flower, fruit, or plant cutting, said method comprising providing to said flower, fruit, or plant cutting a solution comprising an amount of.

- (a) a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl;

or

- (b) ~~the composition of claim 1 or claim 72 a composition comprising:~~
at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and
a horticulturally-acceptable vehicle; or

- (c) a composition comprising: about 2 g N-lauroylethanolamine, about 1 g soy lecithin, and about 0.2 ml polyoxyethylenesorbitan monolaurate per 20 ml of isopropanol,
effective to prolong the appearance of said plant, flower, fruit, or plant cutting.

74. (Currently Amended) A method of increasing the shelf life of a plant, flower, fruit, or plant cutting, said method comprising providing to said flower, fruit, or plant cutting a solution comprising an amount of:

- (a) a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl; or

- (b) the composition of claim 1 a composition comprising:
at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and
a horticulturally-acceptable vehicle,
effective to increase the shelf life of said plant, flower, fruit, or plant cutting.

75. (Previously Added) The method of claim 74, comprising providing to said flower, fruit, or plant cutting a solution comprising an amount of a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, effective to increase the shelf life of said plant, flower, fruit, or plant cutting.

76. (Currently Amended) The method of claim 75, wherein said compound is *N*-lauroylethanolamine (NAE12:0), or *N*-myristylethanolamine (NAE14:0), or a mixture thereof.

77. (Currently Amended) A method of extending the freshness or aesthetic appearance of cut flowers, ornamental cut trees, or a plant cutting, said method comprising: providing to said cut flowers, said ornamental cut trees, or said plant cutting, a solution comprising a biologically-effective amount of:

(a) a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl; or

(b) the composition of claim 1 a composition comprising:
at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and
a horticulturally-acceptable vehicle,

for a time effective to extend the freshness of or aesthetic appearance of said cut flowers, said ornamental cut trees, or said plant cutting.

78. (Previously Added) The method of claim 77, comprising providing to said cut flowers, said ornamental cut trees, or said plant cutting, a solution comprising a biologically-effective amount of a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, for a time effective to extend the freshness of aesthetic appearance of said cut flowers, said ornamental cut trees, or said plant cutting.

79. (Currently Amended) The method of claim 78, wherein said compound is *N*-lauroylethanolamine (NAE12:0), or *N*-myristolethanolamine (NAE14:0), or a mixture thereof.

80. (Currently Amended) A method of extending the vase life of a cut flower or plant cutting, said method comprising: providing to said cut flower or plant cutting a solution comprising an effective amount of:

- (a) a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl; or

- (b) ~~the composition of claim 1~~ a composition comprising:
at least a first compound of the formula:



wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting,

at least a first plant hormone selected from the group consisting of an auxin, a gibberellin and a cytokinin, and
a horticulturally-acceptable vehicle,

for a time necessary to extend the vase life of said cut flower or said plant cutting.

81. (Previously Added) The method of claim 80, comprising: providing to said cut flower or plant cutting a solution comprising an effective amount of a compound of the formula:



where R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, for a time necessary to extend the vase life of said cut flower or said plant cutting.

82. (Currently Amended) The method of claim 81, wherein said compound is *N*-lauroylethanolamine (NAE12:0), or *N*-myristolethanolamine (NAE14:0), or a mixture thereof.

83. (Previously Added) A composition comprising:

- (a) at least a first compound selected from the group consisting of NAE10:0, NAE11:0, NAE12:0, NAE13:0, NAE14:0, NAE15:0, NAE17:0, NAE18:0, NAE19:0, NAE20:0, NAE10:1, NAE10:2, NAE10:3, NAE11:1, NAE11:2, NAE11:3, NAE12:1, NAE12:2, NAE12:3, NAE13:1, NAE13:2, NAE13:3, NAE14:1, NAE14:2, NAE14:3, NAE15:1, NAE15:2, NAE15:3, NAE16:1, NAE16:2, NAE16:3, NAE17:1, NAE17:2, NAE17:3, NAE18:1, NAE18:2, NAE18:3, NAE19:1, NAE19:2, NAE19:3, NAE20:1, NAE20:2, and NAE20:3, in an amount of from about 1% to about 20%; and
- (b) a horticulturally-acceptable vehicle that comprises at least a first surfactant, and at least a first antifungal, bacteriostatic, or bactericidal agent.

84. (Previously Added) A composition comprising:

- (a) at least a first and a second distinct compound, each selected from the group consisting of NAE10:0, NAE11:0, NAE12:0, NAE13:0, NAE14:0, NAE15:0, NAE17:0, NAE18:0, NAE19:0, NAE20:0, NAE10:1, NAE10:2, NAE10:3, NAE11:1, NAE11:2, NAE11:3, NAE12:1, NAE12:2, NAE12:3, NAE13:1, NAE13:2, NAE13:3, NAE14:1, NAE14:2, NAE14:3, NAE15:1, NAE15:2, NAE15:3, NAE16:1, NAE16:2, NAE16:3, NAE17:1, NAE17:2, NAE17:3, NAE18:1, NAE18:2, NAE18:3, NAE19:1, NAE19:2, NAE19:3, NAE20:1, NAE20:2, and NAE20:3, and each in an amount of from about 1% to about 20%; and

- (b) a horticulturally-acceptable vehicle that comprises at least a first lecithin, and at least a first antifungal, bacteriostatic, or bactericidal agent.
85. (Currently Amended) A composition comprising:
(a) at least a first compound selected from the group consisting of NAE10:0, NAE11:0, NAE12:0, NAE13:0, NAE14:0, NAE15:0, NAE17:0, NAE18:0, NAE19:0, and NAE20:0, in an amount of from about ~~0.2 0.4~~ to about ~~800 400~~ μM ; and
(b) a horticulturally-acceptable vehicle that comprises at least a first surfactant, and at least a first antifungal, bacteriostatic, or bactericidal agent.
86. (Currently Amended) A composition comprising:
(a) at least a first compound selected from the group consisting of NAE10:0, NAE11:0, NAE12:0, NAE13:0, NAE14:0, NAE15:0, NAE17:0, NAE18:0, NAE19:0, and NAE20:0, in an amount of from about ~~0.2 0.4~~ to about ~~800 400~~ μM ; and
(b) a horticulturally-acceptable vehicle that comprises at least a first surfactant, and at least a first alcohol.
87. (New) A composition comprising:
(a) at least a first compound of the formula:
RCONHCH₂CH₂OH
wherein R is optionally branched or straight chain, saturated or unsaturated C₈-C₂₀ alkyl, in an amount of from about 0.4 μM to about 400 μM ; said amount effective to prolong the freshness or the aesthetic appearance of a plant, a flower, a fruit or a plant cutting; and
(b) a horticulturally-acceptable vehicle.
88. (New) The composition of claim 87, wherein said vehicle comprises at least a first nutrient source for said plant, flower, fruit, or plant cutting; a first surfactant; a first buffer; a first osmoregulant; water; or a mixture thereof.

89. (New) The composition of claim 87, further comprising at least a first antifungal agent, bacteriostatic agent, bactericidal agent, alcohol, second anti-senescent component, or a mixture thereof.